



Long-life mobile energy storage container for highways in India





Overview

India is launching a US\$ 68.64 million pilot to test green hydrogen fuel infrastructure on 10 highways, aiming to support long-haul transport and advance its net-zero 2070 and Green Hydrogen Mission goals.

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In the spirit of the COP 30 Presidency 's call for a global mutirão - a collective effort to mobilize climate action - the Business Council for Sustainable Energy (BCSE) will lead a business delegation to COP 30 in Belém, Brazil that will bring forward credible solutions, partnerships, investments.

India is focusing on green hydrogen fuel infrastructure along national highways as the next step in its transport strategy. The Ministry of Road Transport and Highways (MoRTH) will launch a pilot project worth Rs. 600 crore (US\$ 68.64 million) on 10 selected highway stretches. This initiative aims.

India's Ministry of Road Transport and Highways (MoRTH) is taking a bold step beyond electric vehicles (EVs) by launching a ₹600 crore (₹6 billion) pilot project to establish green hydrogen fuelling infrastructure across 10 key national highway corridors. This initiative complements the existing EV.

Guided by our National Electricity Plan and bold climate pledges, we aim to achieve 500 GW of renewable energy capacity by 2030—a goal that reflects our resolve to lead globally in clean energy. Energy storage is at the core of this vision. It's the key to harnessing the full potential of renewable.

Standalone Energy Storage Systems (ESS) are rapidly emerging as a key market, with 6.1 gigawatts of tenders issued in the first quarter of 2025 alone, accounting for 64% of the total utility-scale energy storage tendering activity. Tenders supported by Viability Gap Funding (VGF) demonstrate.

Dublin, March 13, 2025 (GLOBE NEWSWIRE) -- The "India Hydrogen Storage & Transport Market - A Country Level Analysis: Focus on Hydrogen Production, Storage and Distribution" report has been added to ResearchAndMarkets.com's



offering. India's hydrogen ecosystem is poised for significant expansion as.



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As the country rapidly scales up variable renewable energy (VRE), Standalone ESS offers a dispatchable solution to address the ...

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This case study is part of BCSE's Granary of Solutions to deliver emissions reductions, increase resilience, and meet energy transition goals worldwide.

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Energy Storage Systems (ESS) Overview

Energy Storage Systems (ESS) can be used for storing available energy from Renewable Energy and further can be used during ...

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India's Roadmap to the Future: Green Hydrogen Pilot for Highways

This initiative complements the existing EV charging network and prioritizes clean energy solutions for long-haul and heavy-duty transport where EVs often face range and ...



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[The standalone energy storage market in India , IEEFA](#)

As the country rapidly scales up variable renewable energy (VRE), Standalone ESS offers a dispatchable solution to address the intermittency of renewables, support grid ...

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Battery Energy Storage Systems (BESS) provide the crucial flexibility: they capture excess solar and wind power when available and ...

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Energy Storage Systems (ESS) Overview

Energy Storage Systems (ESS) can be used for storing available energy from Renewable Energy and further can be used during peak hours of the day.

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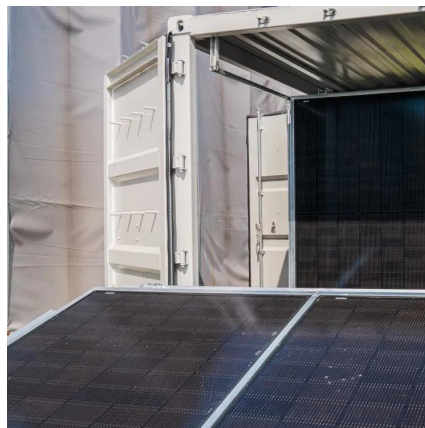
[India Gears Up for a Hydrogen-Powered](#)



[Future: Ecosystem](#)

This transition, combined with India's existing natural gas infrastructure, lays the foundation for scaled-up hydrogen transportation and storage solutions across the country.

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ESS Technologies: Recent advances and policy developments in energy storage

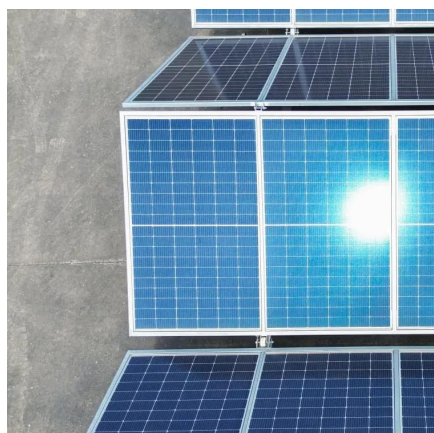
As per the CEA, as of December 2024, India had eight on-river PSPs with a combined capacity of 4,745.6 MW, spread across Telangana, Maharashtra, Gujarat, Tamil ...

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[Long Duration Energy Storage Startups in India](#)

These cylinders undergo rigorous testing to ensure safety and compliance. Applications include solutions for oil and gas, city gas distribution, automotive, heavy transport, ...

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Green hydrogen infrastructure along highways is next on India's

India is focusing on green hydrogen fuel infrastructure along national highways as the next step in its transport strategy. The Ministry of Road Transport and Highways (MoRTH) ...

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[Battery Energy Storage Systems Driving](#)



[India's Clean Future](#)

Battery Energy Storage Systems (BESS) provide the crucial flexibility: they capture excess solar and wind power when available and release it when needed.

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[STRATEGIC PATHWAYS FOR ENERGY STORAGE IN ...](#)

The report, Strategic Pathways for Energy Storage in India Through 2032, tackles these questions. With its sharp analysis and data-driven approach, it maps out practical, affordable ...

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